Lenco

PORTABLE DIGITAL TV(DVB-T)

TFT-725

User Manual

For information and support, www.lenco.eu

Size: 120X170mm

Table of Contents

Important Safety Instructions 2

Remote Control 3

Front and Rearpanel illustration 5

User interface 6

- Quick Installation 6
- Menu Operations 7
- Normal Play 12

Screen Setting 14

Support 14

Specifications 14

Important Safety Instructions

Introduction

Warning: To reduce the risk of electric shock, do not remove the cover or back. There are no user-serviceable parts inside. Refer servicing to qualified personnel.

Warning: To prevent fire or electric shock hazard, do not expose the unit to rain or moisture.

Do not expose the Adaptor and product to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the unit.

Keep the product away from direct sunlight and heat source such as radiators or stoves.

Do not block the ventilation openings. Slots and openings on the unit are provided for ventilation. The openings should never be blocked by placing your product on a cushion, sofa or other similar surface.

Do not place the product on unstable cart, stand, tripod, bracket or table. The unit may fall, resulting in possible damage or injury.

Never place heavy or sharp objects on the LCD panel or frame.

Only use the AC adapter included with product. Using any other Adapter Will void your warranty.

Unplug the power from the outlet when the unit is not in use.

Attention should be drawn to the environmental aspects of battery disposal.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

WARNNING: The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.

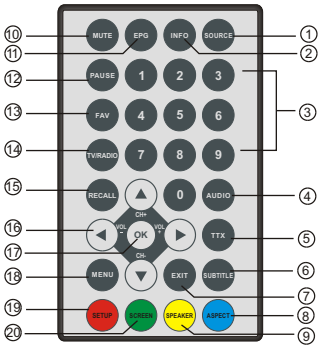
WARNNING: Excessive sound pressure from earphones or headphones can cause hearing loss.

WARNNING: Only use attachments/accessories specified provided by the manufacturer, the product is supplied by AC adapter, the AC adapter is used as disconnect device, the disconnect device shall remain readily operable.

Caution: Danger of explosion if battery is incorrectly replaced, replaced only with the same or equivalent type (Lithium battery).

- **For good reception, place the rod antenna as near as the window of house, and place it as far as the screen of this DVB-T receiver.**
- **Don't place the rod antenna near other machine/appliance (such as motor, computer, switching power, TV, audio power amplifier, speakers... etc), since these machines/appliances can cause interferences to the antenna.**

Remote Control



Remote Key Function:

1) SOURCE: To select input source.

2) INFO: Used to display information about the channel being viewed, or special function indicated on the menu.

3) NUMBER KEYS: Used to select channel numbers or input numbers in menus.

4) AUDIO: Used to exchange the audio language or the audio track.

5) TEXT: Used to open teletext OSD display if teletext available in the broadcasted stream.

6) SUBTITLE: Used to switch between different subtitles that are broadcasted.

7) EXIT: Used to return to the previous screen or menu.

8) ASPECT: Used to adjust aspect (16:9 or 4:3) of the screen when there is no menu on the screen.

9) SPEAKER: Used to close or open the speakers output when there is no menu on the screen.

10) MUTE: Used to turn the sound on or off.

11) EPG: Used to display the Electronic Program Guide menu window.

12) PAUSE: Used to pause or playback the program being viewed.

13) FAVORITE: Used to access your favourite channels.

14) TV/RADIO: Used to switch between TV channels and Radio stations.

15) RECALL: Used to switch between the last two viewed channels.

16)

- ▶ Navigate (Right) the menu screens or increase the volume.
- ◀ Navigate (Left) the menu screens or decrease the volume.
- ▲ **CH+:** Used to move around the menu screens or select the channels in non-menu state.
- ▼ **CH-:** Used to move around the menu screens or select the the channels in non-menu state.

17) OK: Used to confirm a selection in a menu.

18) MENU: Used to open the main menu window.

19) SETUP: Used to adjust the brightness/contrast/color/hue parameter of TFT screen when there is no menu on the screen.

20) SCREEN: Used to close or open the TFT screen backlight when there is no menu on the screen.

Note:

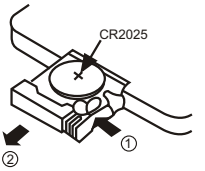
1. SUBTITLE/LANGUAGE/TEXT may not available for all channels.

2. A/V output is not available when the unit is working in AV in mode, it only works in DTV mode.

3. FUNCTION/SCREEN/SPEAKER/ASPECT will act as RED/GREEN/YELLOW/BLUE key when osd menu is on the screen.

Using the Remote Control

Point the remote control at the remote sensor in order for the player to function correctly. The remote will function to approximately 21' from the remote sensor at an angle of approximately 30^0 each direction. Note: Directing the remote sensor toward any light source, such as direct sunlight, may cause the unit to malfunction. Do not spill water or put wet items on the remote control. Never disassemble remote control.



HOW TO REPLACE THE BATTERY
STEP 1: PUSH THE BUTTON TOWARD LEFT;
STEP 2: PULL THE BATTERY LOADER OUT.

Caution:

Incorrect use of batteries may cause them to leak, corrode or explode.

- Be sure to place the batteries in the correct direction.
- It is dangerous to charge/heat/open or short-circuit the batteries.
- Do not leave dead or expired batteries or mix old/new batteries.
- When not using the remote control for a long duration of time, remove the batteries.
- When operating range becomes reduced, replace all batteries with new, fresh ones.
- If leakage from the battery occurs, wipe the battery liquid from the battery compartment, then replace.

Built-in Rechargeable Battery Management

This portable TV used a smart battery management system inside which can support low battery detection.

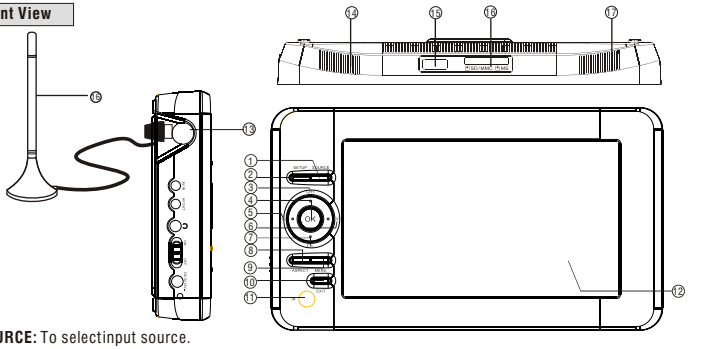
1. If the battery voltage falls below a specific value, the unit will enter low battery mode, displaying a flashing low battery icon in the OSD, indicating the user needs to recharge the TV immediately.

2. If the AC/DC adapter is connected, it will supply the unit with power, and the battery will be charged automatically, whatever the power switch is ON or OFF.

3. If the user keep on watching without connect with the fitted DC adaptor, after the battery exhausted, an empty battery icon will display and blink at the left up corner, the TFT screen will turn into black instead of display the picture and the audio will be muted. But the system are still working, if the user plug the DC adaptor at this time in time, the system will back to normal working mode, the video and audio will reproduce again.

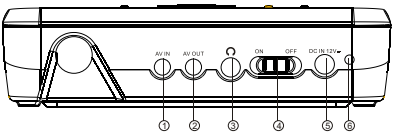
Panel illustration

1. Front View



1) SOURCE: To select input source.
2) SETUP: Used to adjust the brightness/contrast/color/hue parameter of TFT screen when there is no menu on the screen.
3) CH+: Move around the menu screens or selecting the channels in non-menu state.
4) OK: Confirm a selection within a menu.
5) VOL-: Move around the menu screens or changing the volume in non-menu state.
6) VOL+: Move around the menu screens or changing the volume in non-menu state.
7) CH-: Move around the menu screens or selecting the channels in non-menu state.
8) ASPECT: To change picture aspect.
9) MENU: Open the main menu window.
10) EXIT: Exit menu.
11) REMOTE CONTROL SENSOR: Receive the signal from the remote control
12) TFT screen: Display the TFT widescreen display.
13) Antenna input: Connect to an external RF signal.
14) Speaker Left: The left speaker.
15) USB(mini plug)
16) Memory Card slot
17) Speaker Right: The right speaker.

2. Right View



1) AV IN JACK: This jack used to connect a external CVBS video and analog audio input.
2) AV OUT JACK: This jack outputs CVBS video and analog audio signal.
3) EARPHONE JACK: This jack outputs analog audio L/R signal to earphone.
4) POWER SWITCH: This switch used to switch on/off the system.
5) DC IN JACK: This is used for AC-DC adaptor input, the voltage range is 12V.
6) CHARGE INDICATOR: The system is in charging state when red LED is lighting, it will turn into green when full charged.

User Interface

1.Quick Installation

1.1 Setting Country and Language

User can select preferred country and language at **Setup - Installation** page.
(1) Press <Menu> button to enter Main Menu.
(2) Press <Left/Right/Up/Down> to select different sub-menu. (See Figure 1)
(3) Press <OK> button to enter the selected sub-menu.
(4) Press <Menu/Exit> to exit the current menu.
If there is no channel database in the STB, it will show Installation menu directly when booting. See Figure 2. You can press <OK> button to start Auto Scan or <GREEN> button to start Manual Scan.

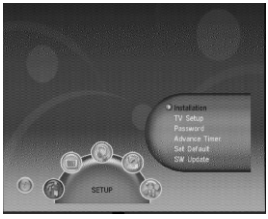


Figure 1. Main Menu- SETUP

Figure 2. SETUP -Installation

1.2 How to receive the programs?

Scan the possible frequency and bandwidth to receive the programs.
Press <OK> or <GREEN> button to start **Auto Scan** or **Manual Scan**.

1.2.1 Auto Scan

Auto Scan will erase the database first, and scans default frequency and bandwidth by **Country Setting**. Follow the steps (1) - (4) at section 1.1. Then Press <OK> button to confirm to clear the current database and start Auto Scan.
It costs time to do **Auto Scan**, user can press <Exit> button to exit at anytime. See Figure3. Later if you want to scan again, you can follow above Quick Installation procedure.

Figure 3. Clear database message

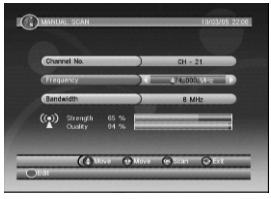


Figure 4. Manual Scan edit

1.2.2 Manual Scan

Manual Scan adds the scanning results into database, it doesn't erase the database. But the User has to know the **Frequency** and **Bandwidth** for scanning. If the user scans the same **Frequency** and **Bandwidth** more than once, the previous programs will be overwritten. Follow the steps (1) - (4) at scetion 1.1.
(5) Press <Up/Down> to select different option
(6) Press <Left/Right> button to select different values
(7) Press <0-9> to input the frequency.
(8) Press <OK/Exit> button to start Manual Scan or exit. See Figure 4.

2.Menu Operations

Once the channel scan is finished and all the channels are stored into the database, you can start to watch the digital terrestrial TV channel or listen to the radio broadcast, some typical operations are given in this chapter.

2.1 Main Menu

Main Menu for operating a lot of functions.
(1) Press <Menu> button to enter **Main Menu**. See Figure 1.
(2) Press <Info> button to display the version information of STB.

2.2 SETUP

Set the system settings of STB. See Figure 1.

2.2.1 Installation

Set the receiving and playing program settings of STB. See Figure 2.

2.2.1.1 Antenna Setting

Set the antenna power on or off to supply +5V power to antenna or not.
Note: The default is **OFF**, set this option to "**ON**" only if this STB is connected to an active antenna which amplifies the received RF signal, otherwise please set it to "**OFF**".

2.2.1.2 Country Setting

Set the country for **Auto Scan**, **Manual Scan** and **Time Zone**.
Note: Change the **Country Setting** will automatically change the default **Time Zone** and set the default **Frequency** and **Bandwidth** for **Auto Scan**.

2.2.1.3 OSD Language

Set the On Screen Display Language.

2.2.1.4 Audio Language

Set the audio language for watching program.

2.2.1.5 Subtitle Language

Set the language for displaying subtitle.

2.2.1.6 LCN

Set the Logical Channel Number to on or off.
Note: LCN is a number that uniquely identifies a logical channel, which is popular in some european countries such as England, France.

2.2.1.7 Auto Time Zone / Time Zone

Allow you to enable or disable auto time zone offset update. If you know the GMT (Greenwich Mean Time) time zone offset of your location, set the **Auto Time Zone** to **OFF** and select an appropriate **Time Zone**, otherwise set it to **ON** and let the system update the time zone automatically according to the transport stream. See Figure 3.
Note: Some Countries are covered with more than one Time Zone.

2.2.1.8 Auto Scan

Press <OK> button to start **Auto Scan**. See section **1.2.1** for details.

2.2.1.9 Manual Scan

Press <GREEN> button to start **Manual Scan**. See section **1.2.2** for details.

2.2.2 TV Setup
Setup the display mode for TV. See Figure 5.

2.2.2.1 TV Mode
Set PAL, NTSC or AUTO for display. AUTO will switch PAL or NTSC by program content. This setting should be matched with user's TV.

2.2.2.2 OSD Transparency
Set the On Screen Display transparency. 1 is the most transparent.

2.2.2.3 Banner Display Time
Set Banner displays time. Banner doesn't disappear when set as "Always" and disappears at timeout when set as other values.

2.2.3 Password
Set password for menu lock or channel lock or censorship lock. And the user can change password here, the default PIN Code is 6666. See Figure 6.

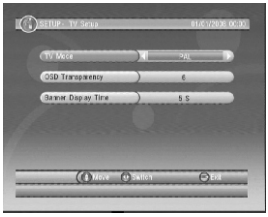


Figure 5. TV Setup

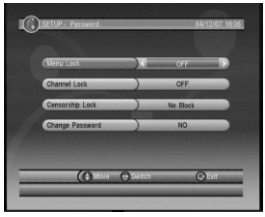


Figure 6. Password Page

2.2.3.1 Menu Lock: Lock the menus by password.

2.2.3.2 Channel Lock
Lock the channel which has been set to lock status when turning on the Channel Lock. Please see section 2.3.1.2 for details.

2.2.3.3 Censorship Lock
Lock the program by password and censorship threshold. The censorship info is in program content. Under the censorship rating, user has to enter the right password for watching program.

2.2.3.4 Change Password
To change the PIN code, select this option, press <Left/Right> button to trigger changing password and <0~9> buttons to enter old password, new password and confirm new password. If succeed, the PIN Code Changed message will be displayed, otherwise the PIN Code Error message will be displayed.

2.2.4 Advance Timer
User can set timer for watching the program by date and time manually or from the TV/Radio Guide (see section 2.3.2). When setting date and start time is arrived, STB will automatically switch to the wanted program. Press any key except <Vol-/Vol+/Mute> button, STB asks user to abort it or not when watching booked program. User can delete the event while it isn't at running.

2.2.5 Set Default
Restore STB to factory default. All settings did by user will be restored to factory default values and the database will be erased together.

2.3 TV/RADIO

There are two types of program: TV and Radio. The operation of the **List** and **Guide** of TV and Radio are almost the same. Here in take TV as example.

Figure 7. TV List

2.3.1 List

User can operate some functions in **List**. See Figure 7.

2.3.1.1 Favorites

User can quickly channel up/down the favorite programs by favorite filter. There are 8 groups of favorite for user setting: News, Sport, Movie, Music, Shopping, Travel, Boy and Girl. Press <1~8> button to set or clear the favorite group when **Favorites** option selected.

2.3.1.2 Lock

Lock will ask password before watching this program when **SETUP -> Password > Channel Lock** is turned on. Please see section **2.2.3.2** for details.
Press <OK> button to set or clear lock status when **Lock** option selected.

2.3.1.3 Edit

User can edit the program name, maximum length is 20 characters.
(1) Press <Left/Right> button to select **Edit** option and <Up/Down> button to select the program.
(2) Press <OK> button to display program info and press it again to edit program name.
(3) Press <Up/Down/Left/Right/0~9/RED/GREEN> button to select the character.
(4) Press <OK> button to finish the editing and return to previous program info page.
(5) Press <RED> button to save the editing and return to **List** or press <Exit> button to return to **List** without saving.

2.3.1.4 Move

Move will allow you move the position of the channels in the list.
Note: This option will not appears in this list when **SETUP->Installation->LCN** is set to ON.

2.3.1.5 Sort

Sort will allow you sort the channels by **A<->Z** or **Pay<->Free**.
Note: This option will not appears in this list when **SETUP->Installation->LCN** is set to ON.

2.3.1.6 Skip

Skip will skip the program when changing program by CH+/-. Press <OK> button to set or clear skip status when **Skip** option selected.

2.3.1.7 Delete

Delete will delete the program permanently from database. User must rescan to recover it.
Press <OK/GREEN> button to set delete one or delete all when **Delete** option selected.

2.3.1.8 SW Update

Update software by USB. Enter file browser and press <Left/Right/OK> button to change folder and focus on the update file, press <OK> button to start update.

2.3.1.9 Search

User can search the program name by partial keyword.
(1) Press <Left/Right> button to select **Search** option.
(2) Press <OK> button to entry search page.
(3) Press <Up/Down/Left/Right/OK/0~9/RED/GREEN> button to input keyword.
(4) Press <OK> button to Search and return **List.** The matched program will be focused.
(5) Press <GREEN/YELLOW> button to the next or previous matched program.

2.3.2 Guide

Guide is also naming EPG (Electronic Program Guide). See Figure 8.
(1) Press <Up/Down> button to select program or EPG event.
(2) Press <Left/Right> button to change event or date.
(3) Press <OK> button to exit all the menus or show the detail information of selected event.
(4) Press <Exit> button to exit to previous menu.

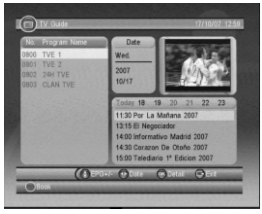


Figure 8. Guide - Event

(5) Press <RED> button to enter **Book** page and <YELLOW> button to save after edited. If it conflict with itself or other event, a conflict message will be displayed. The successful booking will be added to **Main Menu-> SETUP->Advance Timer (**see section **2.2.4)**.

2.4 MULTIMEDIA

Multimedia must be used with external USB device inserted, otherwise the "Device is not ready!" message will be displayed, remove device when playing photo or MP3/WMA, the "Device is removed!" message will be displayed and return to **Main Menu**.

2.4.1 My Album

My Album can display JPG/BMP/GIF photos and operate it. If there are photos in device root folder, it will start at **Thumbnail** mode, otherwise it will start at **Folder** mode. Press <BLUE> button can switch to **Folder** mode and <Exit> button to **Thumbnail** mode again.

2.4.1.1 Thumbnail/Folder

The info (Width XHeight and Date) of selected photo will be displayed at the left bottom in **Thumbnail** mode and right up in **Folder** mode. See Figure 9.
Press <Up/Down/Left/Right/OK> button to browse folders or files.
Press <OK> button to view the selected photo and press again to start slide show.
Press <Info> button to select device between USB and Card Reader, or external USB hub.

Figure 9. My Album - Thumbnail

2.4.1.2 Zoom

Press <RED> button to zoom in or zoom out the photo in view mode. The zoom factor can be 25%, 50%, 100%, 150%,2 00%. If zoom factor greater than 100%.
press <Up/Down/Left/Right> button can move around the photo.

2.4.1.3 Rotation

Press <Left/Right> button to rotate left or right and <YELLOW/BLUE> button to flip horizontal or vertical in view mode. After rotating or flipping the photo and return **Thumbnail** mode, the effect will be keeped.

2.4.1.4 Slide Show

Press <OK> button to view the photo from **Thumbnail** or **Folder** mode and press it again to start the slide show.
Press <RED> button to play or pause the slide show.
Press <GREEN> button to set music playing at background when slide show.
Press <YELLOW> button to set repeating or once.
Press <BLUE> button to set the time interval between current and next photo.
Press <Up/Down> button to next or previous photo right away.

2.4.2 My Music

My Music can play most of MP3/WMA files. It displays progress bar, audio spectrum, current playing time and total time while playing. See Figure 10.
Press <Info> button to select device between USB and Card Reader, or external USB hub.
Press <Up/Down/Left/Right/OK> button to browse folders and files.
Press <OK> button to start play.
Press <RED> button to play or pause.
Press <GREEN> button to stop.
Press <YELLOW> button to set play mode as Repeat All, Repeating, Random, repeat Off.
Press <BLUE> button to set fast forward speed as x2,x3,x4,Normal.
Press <Left/Right/Mute> button to adjust volume while playing.

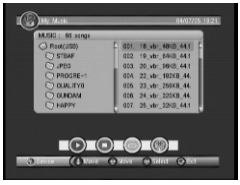


Figure 10. My Music -Browser

2.5 ACCESSORY

There are three options: **Gomoku, Calendar, Calculator**.
Gomoku
Press <Up/Down/Left/Right> button to set play mode and difficulty.
Press <OK> button to start play Gomoku.
Press <Up/Down/Left/Right> button to select the position.
Press <OK> button to place the piece.
Calendar displays the year, month, and date.
Calculator can used for mathematical calculations.

3.Normal Play

Normal Play means STB under watching TV or listening to the Radio. See Figure 11.

Figure 11. Normal Play - Radio

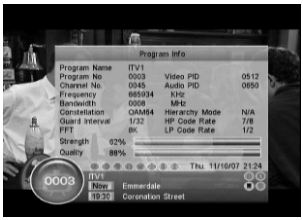


Figure 12. Program Info

3.1 Information

Press <Info> button once to display info banner. Banner displays the program No., favorite setting, current time, program name, now and next event, lock, scramble, subtitle and teletext info.
Press <Info> button when banner exist to display detail info of now event.
Press <Info> button when detail exist to display current program info. See Figure 12.

3.2 Switch Program

User can switch program by UP/DOWN or input program number directly. If the input program number doesn't exist, STB will ignore the input. Or press <Recall> button to switch to last watching program from current watching program.

3.3 Volume

Press <LEFT/RIGHT> button to adjust the volume.
Press <Mute> button to mute.
If adjust the volume while mute, mute will be canceled.

3.4 Program List

Press <OK> button to display **Program List** with No., name and lock/scramble/skip status. See Figure 13.
Press <Up/Down/Left/Right> to switch the program.
Press <OK/Exit> to return normal play mode.

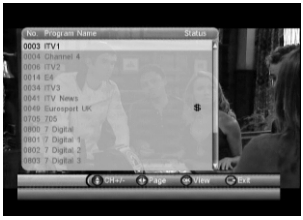


Figure 13. Program List

Figure 14. Audio Channel

3.5 Audio

Switch the sound channel and switch sound mode to LR (stereo) or LL (left) or RR (right). If setting audio language at **SETUP->Installation->Audio Language**, the audio channel default language will be chosen by setting. See Figure 14.
Press <Audio> button to display the audio channel page.
Press <Up/Down> button to select Channel/Audio PID or Sound Mode option.
Press <Left/Right> button to set the value.

3.6 Pause

Pause video and audio. But it will be canceled by any input.

3.7 Favorites

User can switch the favorite programs in the same favorite group. About favorites setting, see section **2.3.1.1** for details.
Press <YELLOW> button to switch the favorite group in Program list.
Press <FAV +/-> button to switch the same favorite program in normal play mode.

3.8 Teletext

Display teletext on screen, the style of teletext may be different by content provider. See Figure 15.
Press <Text> button to display the teletext setting page.
Press <Up/Down> button to select the teletext language if the program has teletext.
Press <OK/Exit> button to exit the teletext setting page.
Press <0~9/Up/Down/Left/Right> button to change teletext page if teletext exists.

Figure 15. Teletext Setting Page

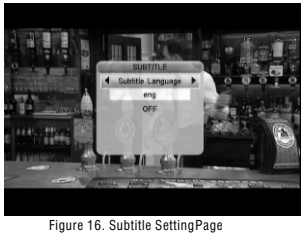


Figure 16. Subtitle Setting Page

3.9 Subtitle

Display the subtitle on screen, the style of subtitle may be different by content provider. See Figure 16.
Press <Subtitle> button to display subtitle setting page.
Press <Up/Down> button to select subtitle language, if the program has subtitle.
Press <OK/Exit> button to exit subtitle setting page.

3.10 Teletext Subtitle

Display subtitle by teletext, the style of the teletext subtitle may be different by content provider.
Press <Text/Subtitle> button to display teletext or subtitle setting page.
Press <Left/Right> button to select "TTX Subtitle".
Press <Up/Down> button to select teletext subtitle language.
Press <OK/Exit> button to exit the setting page.

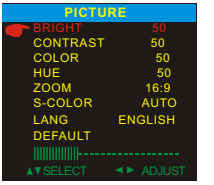
3.11 Guide

Press <GUIDE> button at normal play state, see section 2.3.2 for details.

3.12 List

Press <GREEN> button at normal play state, see section 2.3.1 for details.

SCREEN SETTING



Press the FUNCTION buttonto display PICTURE settingas bellow:
Press <Up/Down> buttonto select different option.
Press <Left/Right> button toadjust different values of the selected option.
Press <Exit> buttonto exit the menu.
Note: HUE option isonly adjustable when inputNTSC signal in DTV/AV mode.
S-color option will beavailable only in AV in mode.

Support

Problem	Probable cause	What to do
No signal found	Aerial is disconnected Aerial is damaged/misaligned Out of digital signal area	Check aerial lead Check aerial Check with dealer
No picture or sound	Viewing incorrect output	Press the DTV/AV button Press the SCREEN button Press the SPEAKER button
Encrypted channel message	It is a pay per view channel	Select an alternative channel
No response from remote control	Set top box is switched off Remote control is not aimed correctly Front panel obstructed Remote control batteries inserted incorrectly Remote control batteries exhausted	Plug in and turn on set top box Aim remote control at front panel Check for obstructions Check batteries are inserted correctly Replace remote control batteries
Square blocks in picture or picture freezes	Aerial may not be compatable Aerial is damaged/misaligned	Check with dealer Check aerial

Specifications

Input Frequency	VHF: 174MHZ-230MHZ, UHF: 470MHZ-862MHZ
Display Device	Color TFT-LCD
Screen Size	7 inches
Screen pixels	480x234 px
Video output	1Vp-p(75 Ω)
Audio output	2CH
Power Voltage	DC IN 12V
Power consumption	≤15W
Size	220X125X31.5MM

Specifications are subject to change without notice.

If at any time in the future you should need to dispose of this product please note that: Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. (Waste Electrical and Electronic Equipment Directive)